

FILE COPY

Mail to: SD DANR, Water Rights 523 E Capitol Ave Pierre, SD 57501-3182 ph. (605) 773-3352	No. <u>2032-1</u> Hydrologic Unit <u>10120202</u>
	Basin <u>Lower Belle Fourche</u>
	Newspaper <u>Faith Independent 967-2161</u> (Wed) <u>Rapid City Journal</u> (office use only)

PAID

JUN 02 2023

Clk# 0110
Rec#

Application for Permit to Appropriate Water in South Dakota RECEIVED

Check use(s) of water:

<input type="checkbox"/> Municipal	<input checked="" type="checkbox"/> Water Distribution System	<input type="checkbox"/> Recreational	<input type="checkbox"/> Institutional
<input type="checkbox"/> Rural Water System	<input type="checkbox"/> Commercial	<input type="checkbox"/> Fish & Wildlife	<input type="checkbox"/> Geothermal
<input type="checkbox"/> Domestic (over 18 gpm)	<input type="checkbox"/> Industrial	<input type="checkbox"/> Other	

Type of Application: (check one)

☒ New ☐ Vested Right (Use predates Mar 2, 1955) ☐ Future Use Reservation

☐ Place to Beneficial Use Water Reserved by Future Use Permit No. _____

☐ Amendment/Correction to Permit No. _____

Description of amendment/correction: (i.e. change diversion point(s), add diversion point(s), change use, etc.)

N/A

- Name to Appear on Water Permit ELK Creek Developers, LLC
Mailing Address 1221 Santana Court Rapid City SD 57701
(Address) (City) (State) (Zip Code)
Phone _____ Mobile 605-341-4184 Email billfreytag@mac.com
- Amount of water claimed 0.167 *CFS or 75 **GPM and 30 ***AF or 9,751,000 Gallons
Flow rate and volume are both required. (*Cubic Feet per Second) (**Gallons per Minute) (***)Acre Feet - storage capacity of dam/dugout or annual use)
- Source of water supply Ground Water - 1 Well
- Location of point of diversion SW 1/4 SE 1/4 Sec 09 TWP 8N R6E County Meade
(example - 3 wells in SW1/4 NE1/4 section 12-T104N-R53W)
- If not a public water supply (e.g. municipal), will water be used outside of the area described above? ☒ Yes ☐ No
If "Yes," where will water be used? South 1/2 of Section 9, T3N, R8E, BHM
(example - NW1/4 section 12-T104N-R53W)
- County or counties where water will be used Meade
- Annual period during which water is to be used January - December
- Give a description of the project. When available include any preliminary engineering report or other reports or information that will help explain the project. (Attach sheet if more space is needed)

Developer has drilled one water well to supply water to approximately 88 residential homes in a subdivision called Horizon Estates 320 located in Meade County.

Bill Freytag

I, Bill Freytag, the applicant, certify under

Name of Person

Title (if applicable)

penalty of perjury that I have read this application, examined the attached map, and that the matters stated are true. I further certify, if acting on behalf of an entity or individual other than myself, that I am authorized to submit this application.

Supplemental Information

(type or print)

1. Well Information (check one or both as applicable)

☐ Drilling new well(s)

☒ Using existing well(s)

a) If new wells, how many _____ Have test holes been drilled? ☐ Yes ☐ No Drilled by _____

(if yes, please provide copies of logs)

b) If existing wells, how many 1 Provide copy of log(s), if available. Drilled by Rapid Drilling, LLC

For either existing or proposed wells:

c) Well Depth (required) 2090 Depth to Top of Water Bearing Material 1740 Depth to Water from Surface 379

d) Distance to nearest domestic well on applicant's property UNKNOWN Property owned by others _____

2. Wastewater Disposal System Information

a) Type of System (i.e. septic tank, drain field) Individual Residential Septic Systems

b) System Capacity (gallons) _____ Year Constructed _____

c) Connected to the City of _____ Sanitary System

3. Dugout Information

a) Surface Dimensions NA Depth _____

b) Depth to water (ground surface to water level) _____

4. Water Storage Dams

If the proposed water use system contains one or more storage dams, please furnish the information requested below for each dam. The locations of the dams need to be shown on the map submitted with the application.

a) If a private engineering firm or government agency was involved in the design of this dam, please give their name and address:

b) Freeboard _____

c) Crest Width _____

Crest Length _____

d) Height _____

e) Primary Outlet Capacity _____

If pipe, diameter _____

f) Secondary Spillway Capacity _____

Spillway Width _____

g) X & Y Slope (e.g. 3 to 1 is a typical slope)

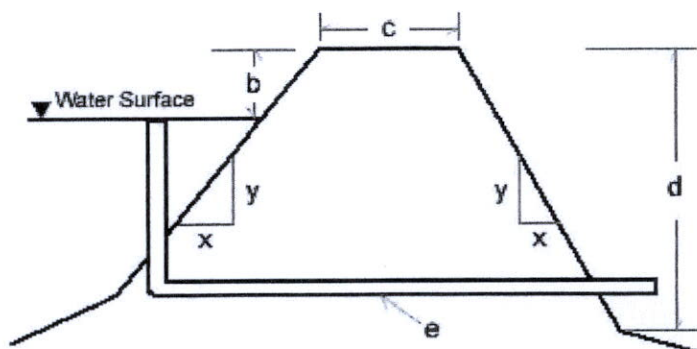
Upstream _____

Downstream _____

h) Area of Impoundment _____

i) Storage _____ Acre Feet

j) Drainage Area Above Dam _____ Acres



SOUTH DAKOTA WATER WELL COMPLETION REPORT

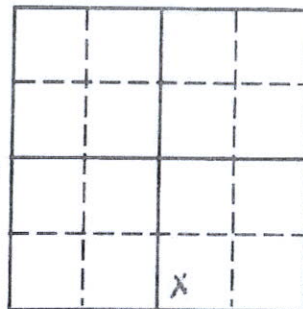
11-02

Location SW 1/4 SE 1/4 Sec 09 Twp 3N Rg 8E

County

Meade

North



Please mark well location with an "X"

Well completion Date

2-13-2023

Distance to nearest potential pollution source (Septic tank, abandoned well, feed lot, etc.)

2 miles ft. from Septic (identify source)

PROPOSED USE:

- ☐ Domestic/Stock
☐ Irrigation
☐ Municipal
☐ Industrial
☐ Business
☐ Institutional
☐ Test Holes
☐ Monitoring well

METHOD OF DRILLING:

Mid Rotary

CASING DATA:

☒ Steel ☐ Plastic ☐ Other

If other describe

PIPEWEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
LB/FT	IN	FT	FT	IN
<u>9.5</u>	<u>8</u>	<u>0</u>	<u>42</u>	<u>12 1/4</u>
<u>7</u>	<u>7</u>	<u>0</u>	<u>2060</u>	<u>8 3/4</u>
<u></u>	<u></u>	<u></u>	<u></u>	<u></u>

GROUTING DATA:

Grout Type	No. of Sacks	Grout Weight	From	To
		Lb/gal	FT	FT
<u>Cement</u>	<u>14</u>		<u>42</u>	<u>0</u>
<u>Cement</u>	<u>332</u>		<u>2060</u>	<u>0</u>
Describe grouting procedure <u>Pressure Grouted</u>				
<u>Through Casing</u>				

SCREEN:

☐ Perforated pipe ☐ Manufactured
 Diameter _____ Inches Length _____ Feet
 Material _____
 Slot Size _____ Set From _____ Feet to _____ Feet
 Other information _____

WAS A PACKER OR SEAL USED?

☐ Yes ☐ No

If so, what material?

Describe packer(s) and location

DISINFECTION: Was well disinfected upon completion?

☐ Yes, How?

Lab sample sent to for water quality analysis ☒ No, Why Not? Not completed

Mid Cont Test R.C.

Please return **WHITE COPY** to: DENR Water Rights

Well Owner:

Business Name:

Address:

City, State, Zip:

Rapid Drilling Development LLC
1221 Santana Court
Rapid City SD 57701

WELL LOG:

FORMATION	DEPTH	
	FROM	TO
<u>Till</u>	<u>0</u>	<u>30</u>
<u>Shale</u>	<u>30</u>	<u>821</u>
<u>Green Horn</u>	<u>821</u>	<u>871</u>
<u>Shale</u>	<u>871</u>	<u>1557</u>
<u>Newcastle</u>	<u>1557</u>	<u>1582</u>
<u>Shale</u>	<u>1582</u>	<u>1740</u>
<u>T. N. Horn</u>	<u>1740</u>	<u>2060</u>
<u>Morrison</u>	<u>2060</u>	<u>2090</u>

STATIC WATER LEVEL

379 FEET

If flowing: closed in pressure

PSI

GPM flow

through _____ Inch pipe

Controlled by ☐ Valve

☐ Reducers ☐ Other

Reduced flow rate

GPM

Can well be completely shut in?

WELL TEST DATA:

☐ Pumped Describe: Air

☐ Bailed

☒ Other

Pumping Level Below Land Surface

744 Ft. After 3 Hrs. pumped 25 GPM

868 Ft. After 4 Hrs. pumped 35 GPM

If pump installed, pump rate:

GPM

REMARKS

Electronically perforated
1850 - 1860 1/8" shot
1860 - 1870
2021 - 2036

This well was drilled under license # 739

And this report is true and accurate.

Drilling firm:

Rapid Drilling L.L.C.

Signature of License Representative:

Signature of Well Owner or Equitable Property Holder:

RECEIVED

MAR 01 2023

Date:

523 E Capitol Ave. Pierre SD 57501

OFFICE OF WATER

3N 8E
Section: 05

3N 8E
Section: 04

3N 8E
Section: 03

218 ST

3N 8E

3N 8E
Section: 08

144 AVE

3N 8E
Section: 09

3N 8E
Section: 10

ELK CREEK RD

3N 8E
Section: 17

3N 8E
Section: 16

3N 8E
Section: 15

ELK VALE RD

320 ACRE DEVELOPMENT

SOUTH $\frac{1}{2}$ OF SECTION 9, T3N, R8E, BHM

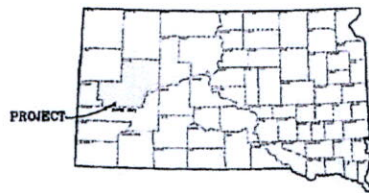
Meade County, South Dakota



320 ACRE DEVELOPMENT
MEADE COUNTY, SD



VICINITY MAP
NTS



PROJECT LOCATION

SHEET INDEX

C1	TITLE SHEET & INDEX	C24	SOUTH ROAD PLAN & PROFILE STA 33+50 TO 37+50	C42	E-W WATER CONNECTION PLAN & PROFILE STA 16+00 TO 20+00
C2	GENERAL NOTES	C25	SOUTH ROAD PLAN & PROFILE STA 37+50 TO 41+50	C43	E-W WATER CONNECTION PLAN & PROFILE STA 20+00 TO 24+50
C3	GENERAL NOTES	C26	SOUTH ROAD PLAN & PROFILE STA 41+50 TO 45+50	C44	WATER MAIN EAST CONNECTION PLAN & PROFILE STA 0+00 TO 4+00
C4	GENERAL NOTES	C27	SOUTH ROAD PLAN & PROFILE STA 45+50 TO 49+75	C45	WATER MAIN EAST CONNECTION PLAN & PROFILE STA. 4+00 TO 7+00
C5	LEGEND	C28	SOUTH ROAD PLAN & PROFILE STA 49+75 TO 53+25	C46	N-S WATER CONNECTION PLAN & PROFILE STA 11+00 TO 15+00
C6	TOPOGRAPHIC MAP & DEMOLITION PLAN	C29	N-S STREET MIDDLE PLAN & PROFILE STA 0+00 TO 4+00	C47	N-S WATER CONNECTION PLAN & PROFILE STA 15+00 TO 19+00
C7	PHASING PLAN	C30	N-S STREET MIDDLE PLAN & PROFILE STA 4+00 TO 8+00	C48	N-S WATER CONNECTION PLAN & PROFILE STA 19+00 TO 22+25
C8	ALIGNMENT SHEET	C31	N-S STREET MIDDLE PLAN & PROFILE STA 8+00 TO 11+25	C49	MASS GRADING PLAN
C9	TYPICAL SECTION	C32	EAST ROAD PLAN & PROFILE STA 0+00 TO 4+00	C50	DETAILS
C10	EROSION CONTROL PLAN	C33	EAST ROAD PLAN & PROFILE STA 4+00 TO 8+00	C51	DETAILS
C11	EROSION CONTROL DETAILS	C34	EAST ROAD PLAN & PROFILE STA 8+00 TO 12+25	C52	DETAILS
C12	EROSION CONTROL DETAILS	C35	EAST ROAD PLAN & PROFILE STA 12+25 TO 16+75	C53	DETAILS
C13	STORM WATER POLLUTION PREVENTION PLAN	C36	EAST CUL-DE-SAC PLAN & PROFILE STA 0+00 TO 4+25	C54	DETAILS
C14	STORM WATER POLLUTION PREVENTION PLAN	C37	EAST CUL-DE-SAC PLAN & PROFILE STA 4+25 TO 7+50	C55	DETAILS
C15	NORTH ROAD PLAN & PROFILE STA 25+00 TO 29+00	C38	E-W WATER CONNECTION PLAN & PROFILE STA 0+00 TO 4+00	C56	DETAILS
C16	NORTH ROAD PLAN & PROFILE STA 29+00 TO 33+00	C39	E-W WATER CONNECTION PLAN & PROFILE STA 4+00 TO 8+00		
C17	NORTH ROAD PLAN & PROFILE STA 33+00 TO 37+00	C40	E-W WATER CONNECTION PLAN & PROFILE STA 8+00 TO 12+00		
C18	NORTH ROAD PLAN & PROFILE STA 37+00 TO 41+00	C41	E-W WATER CONNECTION PLAN & PROFILE STA 12+00 TO 16+00		
C19	NORTH ROAD PLAN & PROFILE STA 41+00 TO 45+00				
C20	NORTH ROAD PLAN & PROFILE STA 45+00 TO 49+00				
C21	NORTH ROAD PLAN & PROFILE STA 49+00 TO 53+25				
C22	SOUTH ROAD PLAN & PROFILE STA 25+50 TO 29+50				
C23	SOUTH ROAD PLAN & PROFILE STA 29+50 TO 33+50				



Designed By: ILG
Design Date: 3/2023
Surveyed By: REINER
Drawn By: JKM
Print Date: 5/4/2023
Survey Date: 8/2022

Version: PRELIMINARY
FOR REVIEW

Prepared For:
VANOCKER
DEVELOPMENT, LLC

Internal Job No:
3222

Sheet Title:
TITLE SHEET &
INDEX

C1

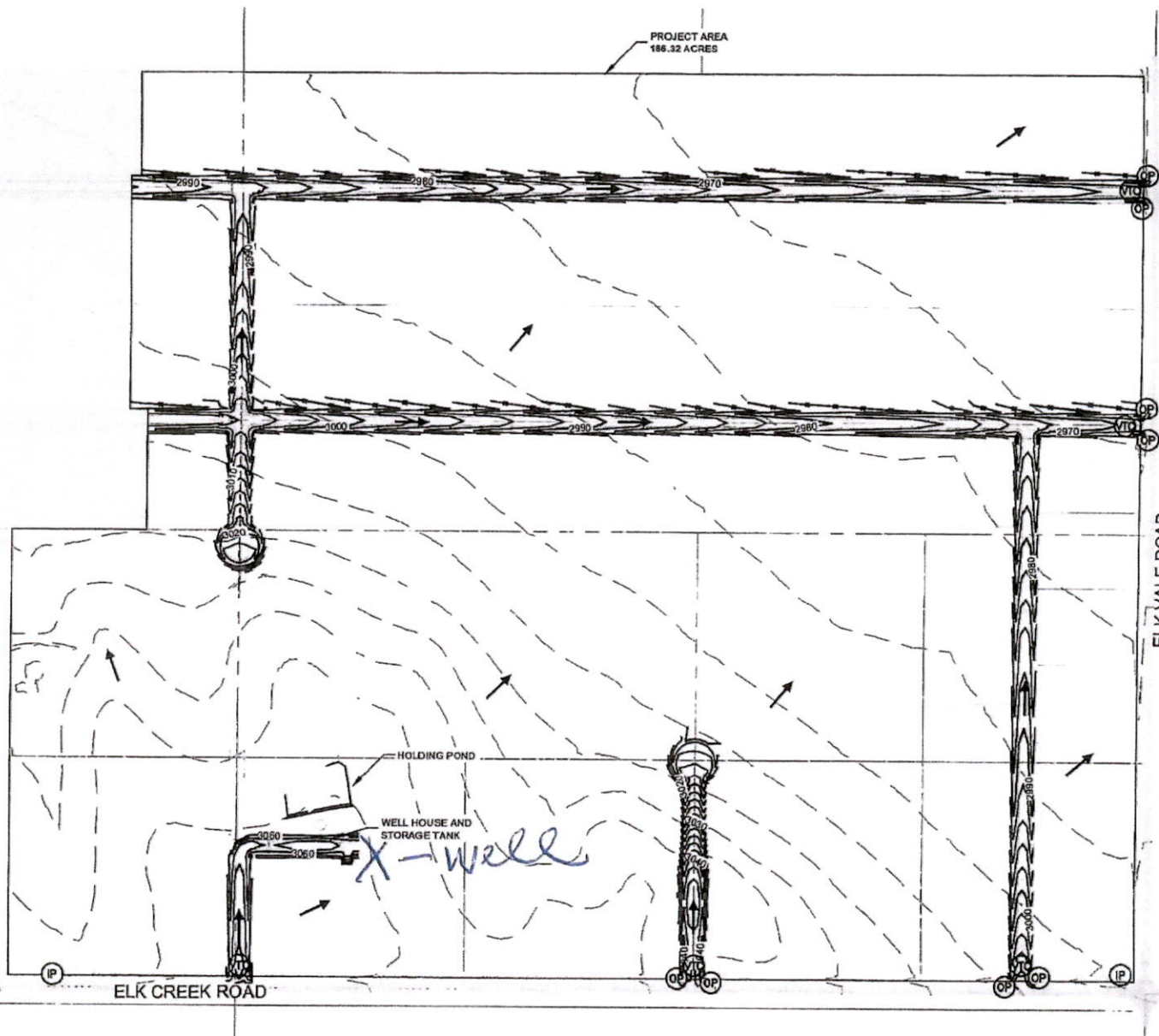
SURFACE DATA:

SURFACE DATA FOR GLOBAL POSITIONING SYSTEMS (GPS) IS AVAILABLE
UPON REQUEST. FEE AND A LIABILITY ACKNOWLEDGMENT WILL APPLY.

CONSTRUCTION LAYOUT

CONSTRUCTION STAKING TO BE PROVIDED BY CONTRACTOR. STAKING OF THE PROPOSED IMPROVEMENTS SHALL
BE CONDUCTED UNDER THE DIRECT SUPERVISION OF A SOUTH DAKOTA REGISTERED LAND SURVEYOR.

FUTURE PHASES
(SEE PHASING PLAN ON SHEET C7)



LEGEND

- (IP) INLET PROTECTION (2 EA)
- (OP) OUTLET PROTECTION (8 EA)
- (VTC) VEHICLE TRACKING CONTROL (MAY BE RELOCATED) (5 EA)
- SEDIMENT CONTROL WATTLE 8" DIA. COMPOST SOCK (5,038 LF)
- DRAINAGE DIRECTION
- J-HOOK WATTLES
- SEED, FERTILIZE, MULCH (67,373 S'Y)

NOTE:
CONTRACTOR TO PROVIDE CONCRETE WASH
OUT AREA. CONCRETE WASHOUT AREA SHOULD
BE PROTECTED WITH NO OFF SITE DRAINAGE
ALLOWED.



320 ACRE DEVELOPMENT MEADE COUNTY, SD

Designed By	ILG	Drawn By	JKM
Design Date	3/2023	Plot Date	5/4/2023
Surveyed By	RENNER	Survey Date	8/2022

Version:
PRELIMINARY
FOR REVIEW

Prepared For:

VANOCKER
DEVELOPMENT, LLC

Internal Job No:

3222

Sheet Title:

EROSION CONTROL
PLAN

C10